

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1896 ...	75.3	71.2	74.2	76.3	78.5	80.0	79.2	80.4	79.6	79.2	76.3	73.2	...
1897 ...	75.3	71.2	74.2	76.3	78.5	80.0	79.2	80.4	79.6	79.2	76.3	73.6	...
1898 ...	74.4	73.1	74.2	75.2	79.0	78.2	76.5	79.0	79.2	...	...	...	...
Av'ge.	74.8	73.2	74.2	75.8	78.8	79.1	77.8	79.8	79.8	79.7	76.3	73.4	76.9

MEAN OF MAXIMUM TEMPERATURES.

1896 ...	75.0	70.0	81.1	82.2	84.1	88.3	85.1	87.1	87.1	88.0	81.2	82.1	...
1897 ...	80.3	79.0	81.1	82.2	84.1	88.3	85.1	87.1	87.1	87.0	83.0	82.2	...
1898 ...	80.1	80.2	82.0	83.1	87.0	86.2	84.2	85.1	86.3	...	...	...	...
Av'ge.	78.5	83.6	82.0	82.6	85.5	87.2	84.6	86.1	87.1	87.5	82.1	82.2	84.1

MEAN OF MINIMUM TEMPERATURES.

1896 ...	69.0	67.0	68.1	70.0	73.1	73.2	74.0	73.0	73.0	73.1	70.1	69.0	...
1897 ...	68.1	67.0	68.1	70.0	73.1	73.2	71.2	76.1	72.2	72.0	70.1	69.1	...
1898 ...	69.1	65.2	65.2	66.0	73.1	73.1	71.2	72.0	72.2	...	...	...	...
Av'ge.	68.1	66.1	66.6	68.0	72.6	72.6	72.6	73.7	72.6	72.6	70.1	69.0	70.4

ABSOLUTE EXTREMES: MAXIMUM TEMPERATURE.

1896 ...	80	81	78	...	...	...	...	87	92	93	85	85	93
1897 ...	86	84	84	87	89	90	89	92	90	91	86	84	92
1898 ...	85	85	85	87	95	92	89	87	93	...	...	...	95
Max...	86	85	85	87	95	92	89	92	93	93	86	85	95

ABSOLUTE EXTREMES: MINIMUM TEMPERATURE.

1896 ...	64	62	64	...	...	...	...	72	71	70	67	65	62
1897 ...	61	65	65	68	69	71	72	72	71	71	65	65	61
1898 ...	66	61	64	65	71	70	66	67	70	...	...	...	61
Min...	61	61	64	65	69	70	66	67	70	70	65	65	61

TOTAL RAINFALL.

1896 ...	4.54	3.32	4.19	5.34	10.44	7.85	13.33	16.98	13.26	6.58	23.08	11.59	132.95
1897 ...	13.16	2.87	3.67	18.73	32.89	3.93	10.45	7.62	10.36	11.56	16.17	9.77	136.18
1898 ...	6.81	2.50	5.27	2.98	7.62	8.84	18.40	12.87	9.93	...	...	...	...
Av'ge.	8.17	2.90	4.38	7.35	16.98	6.87	14.06	12.49	10.85	9.04	19.62	10.68	133.39

NUMBER OF DAYS WITH .01 INCH OR MORE OF RAIN.

1896 ...	21	16	22	17	26	21	30	24	25	23	24	26	279
1897 ...	19	12	12	17	26	16	25	22	20	21	24	27	245
1898 ...	20	13	17	15	12	18	26	15	20	...	...	...	...
Av'ge.	20	14	17	16	21	18	27	20	22	22	28	26	251

GREATEST RAINFALL IN 24 CONSECUTIVE HOURS.

1896 ...	0.59	0.80	1.05	1.56	1.91	2.31	3.65	8.70	2.12	1.56	5.45	1.24	...
1897 ...	6.20	0.61	1.30	2.80	4.13	1.38	1.76	1.90	1.91	2.00	4.32	1.07	...
1898 ...	1.10	0.83	1.37	0.72	2.30	3.40	2.61	4.20	2.71	...	...	...	...
Max...	6.20	0.83	1.37	2.80	4.13	3.49	3.65	8.70	2.71	2.00	5.45	1.24	...

OBSERVATIONS AT RIVAS, NICARAGUA.

The records contributed for many years by Dr. Earl Flint, at Rivas, Nicaragua, include barometric readings. His present station is at $11^{\circ} 26' N.$, $85^{\circ} 47' W.$. The observations at 7:17 a.m., local time are simultaneous with Greenwich 1 p.m. The altitude of his barometer is 36 meters above sea level, but until the barometer has been compared with a standard it seems hardly necessary to publish the daily readings. The wind force is recorded on the Beaufort scale, 0-12. When cloudiness is less than $\frac{1}{6}$, the letter "F," or "Few," is recorded.

This station is situated on the western shore of Lake Nicaragua, not far from the eastern end of the western division of the Nicaragua Canal. The volcano Ometepe, on an island in Lake Nicaragua, is about 10 miles northeast of the station. Mr. Flint's records occasionally mention the presence of clouds in the early morning on the summit of this mountain.

Observations at Rivas, Nicaragua, August, 1898.

OBSERVATIONS AT 7 A. M. LOCAL (8 A. M. EASTERN STANDARD) TIME.

Date.	Temper- ature.	Wind.	Upper clouds.		Lower clouds.		Daily rainfall.
			Air.	Dew-point.	Direction.	Amount.	
1	78.5 °	78.5 °	ne.	0	ck.	4	0.00
2	78.5 °	78.5 °	ne.	0	ck.	6	0.00
3	78.5 °	78.5 °	ne.	1	...	3	1.00
4	78.5 °	78.5 °	se.	0	...	7	0.53
5	78.5 °	78.5 °	sw.	0	...	10	0.00
6	78.5 °	78.5 °	se.	2	csk.	10	0.80
7	78.5 °	78.5 °	se.	2	...	7	0.00
8	78.5 °	78.5 °	se.	1	c.	3	0.00
9	78.5 °	78.5 °	se.	1	...	7	0.00
10	78.5 °	78.5 °	se.	1	ck.	5	0.00
11	78.5 °	78.5 °	se.	0	...	4	0.20
12	78.5 °	78.5 °	se.	2	c.	10	0.00
13	78.5 °	78.5 °	se.	1	ck.	7	1.71
14	78.5 °	78.5 °	se.	0	...	5	0.80
15	78.5 °	78.5 °	se.	0	...	5	0.08
16	78.5 °	78.5 °	se.	0	...	5	0.00
17	78.5 °	78.5 °	se.	0	...	5	0.00
18	78.5 °	78.5 °	se.	0	...	6	0.04
19	78.5 °	78.5 °	se.	0	...	10	0.37
20	78.5 °	78.5 °	se.	0	...	5	0.00
21	78.5 °	78.5 °	se.	0	...	10	0.40
22	78.5 °	78.5 °	se.	0	...	5	0.00
23	78.5 °	78.5 °	se.	2	cs.	10	0.60
24	78.5 °	78.5 °	se.	1	...	6	0.04
25	78.5 °	78.5 °	se.	0	...	10	0.00
26	78.5 °	78.5 °	se.	0	...	5	0.00
27	78.5 °	78.5 °	se.	0	...	10	0.00
28	78.5 °	78.5 °	se.	0	...	5	0.00
29	78.5 °	78.5 °	se.	0	...	10	0.00
30	78.5 °	78.5 °	se.	0	...	5	0.00
31	78.5 °	78.5 °	se.	1	ck.	10	0.00
Means.	77.3	77.3	...	...	...	...	11.85

QUANTITY OF RAINFALL CORRESPONDING TO GIVEN DEPTHS.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

It is sometimes necessary to know the total quantity of water corresponding to given depths of rainfall over an acre or a square mile. An acre, it will be remembered, contains 43,560 square feet or 6,272,640 square inches, over which area